

December 26, 2018

Mr. David Thebearge **Boston Concrete Corporation**706 Broadway St.

Lowell, MA 01854

Re: <u>NPDES Quarterly Stormwater Visual Examination Report and Quarterly Benchmark Results</u>

Dear Mr. David Thebearge,

Enclosed please find the Stormwater Visual Examination Report, Analytical Reports and associated Chain of Custody documentation for Boston Concrete in Lowell, MA. This site was visited on December 16, 2018. Quarterly benchmark were also collected at this time. Please call me if you have any questions or require any additional information. Thank you.

Sincerely,

John D'Andrea

Division Manager - Environmental Monitoring



EST Associates, Inc.

Chain of Custody Record

Phone #: (978) 937-7222 Description: Stormwater Quarterly Visuals	Site: Boston Concrete Corporation Address: 706 Broadway St. Lowell MA 01854-	Associates, Inc. Associates, Inc. S1 Fremont Street Needham, MA 02494 Phone (781) 455-0003 Fax (781) 455-8336 www.estassociates.com
<u>Contact:</u> David Thebearge <u>Phone #:</u> (978) 937-7222 <u>Fax #:</u>	Client: Boston Concrete Corporation Address: 706 Broadway St. Lowell MA 01854-	Container Type P - Plastic G - Glass V - VOA B - Bacteria Container Type 1. Wastewater 1. Wastewater 2. Groundwater 3. Soil 7. Other 4. Drinking Water
RushDay Turnaround	EST Invoice To; Boston Concrete 7222-Q#-00 Q# SQ00316 Signed	Lab Invoice To: N/A Lab Report To:

*All samples o	Manager of the Control of the Contro		Additional Comments:	nla	Sampler's Name (Print)								Outfall 001	Identification	- 00 A T-01- 70 -
hilled to 4 do				Mark								N/A	1 7 00	Sample	
*All samples chilled to 4 degrees celsius.												N/A		Container	
			0.16	DATE TIME								0* 12/16 1910	# Date Time	Sampling	
O1	4	ω	2	- 1 1)	*	Preservative	
			MT To Ger AAL	NUMBER TRANSFERS RELINQUISHED BY TRANSFERS ACCEPTED BY								*Visual Examination Only		Laboratory Analysis	
			125	BY DATE TIME									Notes	200	

Storm Water Quaterly Visual Examination Report Boston Concrete - Lowell, MA

Doston Concret	e - Lowell, IVIA
Facility Name: Boston Concret &	0
Date / Time: /2/16/18 1910	Personnel Involved: Matt Gould
Outfall: 00/	Date of Last Rainfall: 12/2/18
Amount of Rain (inches) 5.50	Duration of Storm: J hous
Nature of Discharge (Runoff or Snowmelt or Both	1): Runoff
Record your visual observations of the sam	ple quality in the space provided below.
Color: Light brown	
Odor: Noue detected	
Clarity: Cloudy	
Floating Solids: None detected	
Settled Solids: Fine sand /silt	
Suspended Solids: Fine particulate	
oam: None delected	·
Dily Sheen: None detected	
Other Observations: No obvious source of	2 pollution
Sources of Pollution / Follow Identify potential sources of pollution identified above (follow up inspections must be performed to trace and inspections.	ve and results of follow up inspections

Signature Moth A



EST Associates, Inc. 51 Fremont Street Needham, MA 02494 Phone (781) 455-0003

Chain of Custody Record

Laboratory:

Alpha Analytical Labs (508) 898-9220

Container Type
P - Plastic Sample Type

Signature Matt Gonic Manie (Print) Additional Comments: Send reports to: dthebearge@bostonconcrete.com & jdandrea@estassociates.com		Outfall 001 Outfall 001	Description: Quarterly Benchmark Sampling LOCATION (Sample Sample Corldentification)		Associates, Inc.
Signature Management of the state of the st			ntainer	te Corporation St. MA 01854-	Phone (781) 455-0003 Fax (781) 455-8336 www.estassociates.com
		14/16/9/0 HNO3	Phone #: Fax #: Sampling Pres	Client: Boston Address: 706 Br Lowell Contact: David	G - Glass 2. Grou V - VOA 3. Soil B - Bacteria 4. Drini
NUMBER TRANSFERS RELINQUISHED BY TRA		Fe	(978) 937-7222 servative Laboratory Analysis	Boston Concrete Corporation 706 Broadway St. Lowell MA 01854- David Thebearge	2. Groundwater 3. Soil 7. Other 4. Drinking Water
TRANSFERS ACCEPTED BY DATE			Rush	EST Invoice To: Boston Concrete 7222-Q#-00 Q# SQ00316 Signed	Lab Invoice To: See Comments
E TIME			Day Turnaround Notes		

*All samples chilled to 4 degrees celsius.

S



ANALYTICAL REPORT

Lab Number:

L1851873

Client:

EST Associates, Inc.

51 Fremont Street

Needham, MA 02494

ATTN:

John D'Andrea

Phone:

(781) 455-0003

Project Name:

BOSTON CONC. QRTLY BENCHMARK

Project Number:

BOSTON CONCRETE CORP

Report Date:

12/26/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



BOSTON CONC. QRTLY BENCHMARK Project Name:

BOSTON CONCRETE CORP Project Number:

Matrix Client ID L1851873-01 Alpha Sample ID

L1851873 Lab Number:

12/26/18

Report Date:

Receive Date 12/17/18 12/12/18 19:10 Collection Date/Time 706 BROADWAY ST., LOWELL, MA Sample Location WATER OUTFALL 001

Project Name: Project Number:

BOSTON CONC. QRTLY BENCHMARK

BOSTON CONCRETE CORP

Lab Number:

L1851873

Report Date:

12/26/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Nails Amita Naik

Authorized Signature:

Title: Technical Director/Representative

Date: 12/26/18

METALS



Project Name:BOSTON CONC. QRTLY BENCHMARKLab Number:L1851873Project Number:BOSTON CONCRETE CORPReport Date:12/26/18

SAMPLE RESULTS

Lab ID:L1851873-01Date Collected:12/12/18 19:10Client ID:OUTFALL 001Date Received:12/17/18Sample Location:706 BROADWAY ST., LOWELL, MAField Prep:Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - I	Mansfield Lab										
Iron, Total	24.0		mg/l	0.050		1	12/21/18 12:00	0 12/26/18 10:0	2 EPA 3005A	19,200.7	LC



Project Name: BOSTON CONC. QRTLY BENCHMARK

Project Number: BOSTON CONCRETE CO

Lab Number:

L1851873

Report Date:

12/26/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	01 Batch:	WG1	192093-1					
Iron, Total	ND	mg/l	0.050		1	12/21/18 12:00	12/26/18 09:22	19,200.7	LC

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

BOSTON CONC. QRTLY BENCHMARK

BOSTON CONCRETE CORP

Project Number: Project Name:

12/26/18 Report Date:

L1851873

Lab Number:

RPD Limits Qual RPD %Recovery Limits LCSD %Recovery Qual LCS %Recovery **Parameter**

Qual Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1192093-2

102

Iron, Total

85-115

Matrix Spike Analysis Batch Quality Control

BOSTON CONC. QRTLY BENCHMARK BOSTON CONCRETE CORP Project Number: Project Name:

Lab Number:

12/26/18 Report Date:

L1851873

Parameter	Native Sample	MS Added	MS Found	MS %Recovery Q	MSD Qual Found	MSD %Recovery	MSD Recovery Recovery Qual Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	Associated san	1ple(s): 01	QC Batch	QC Batch ID: WG1192093-3	QC Sample: L1852319-0		Client ID: MS Sample	mple	
Iron, Total	0.105	-	1.09	86	•		75-125		20



BOSTON CONC. QRTLY BENCHMARK BOSTON CONCRETE CORP Project Number: Project Name:

Lab Duplicate Analysis

Batch Quality Control

L1851873 Lab Number:

12/26/18 Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG1192093-4	4 QC Sample: L1852319-01 Client ID: DUP Sample	L1852319-01	Client ID: DU	IP Sample	
Iron, Total	0.105	0.101	l/gm	4		20

INORGANICS & MISCELLANEOUS



Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1851873

Project Number: BOSTON CONCRETE CORP

Report Date:

12/26/18

SAMPLE RESULTS

Lab ID:

L1851873-01

Client ID:

OUTFALL 001

Sample Location: 706 BROADWAY ST., LOWELL, MA

Date Collected:

12/12/18 19:10

Date Received:

12/17/18

Field Prep:

Not Specified

Sample Depth: Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab									Mar si
Solids, Total Suspended	970		mg/i	34	NA	6.7	-	12/18/18 12:00	121,2540D	DR



Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1851873

Project Number: BOSTON CONCRETE CORP

Report Date:

12/26/18

Method Blank Analysis Batch Quality Control

Parameter	Result 0	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	o for sam	nple(s): 01	Batch:	WG11	190549-1				
Solids, Total Suspended	ND		mg/i	5.0	NA	1	-	12/18/18 12:00	121,2540D	DR



BOSTON CONC. QRTLY BENCHMARK Project Number: Project Name:

BOSTON CONCRETE CORP

Lab Duplicate Analysis Batch Quality Control

L1851873 Lab Number:

12/26/18 Report Date:

RPD Limits General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1190549-2 QC Sample: L1851908-03 Client ID: DUP Sample 29 Qual RPD Units mg/l **Duplicate Sample** 230 Native Sample 230 Solids, Total Suspended **Parameter**



BOSTON CONC. QRTLY BENCHMARK Project Name:

Project Number: BOSTON CONCRETE CORP

Sample Receipt and Container Information

Lab Number: L1851873 Report Date: 12/26/18

Serial_No:12261814:12

Were project specific reporting limits specified?

YES

Custody Seal Cooler Information Cooler

Absent

Final Temp pH deg C Pres Seal Initial pH Cooler Container Type Container Information Container ID

Analysis(*) FE-UI(180) Frozen Date/Time

> Absent Absent

3.4 3.4

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Plastic 250ml HNO3 preserved Plastic 950ml unpreserved

L1851873-01A L1851873-01B

₹ 7

TSS-2540(7)



Project Name: BOSTON CONC. QRTLY BENCHMARK Lab Number: L1851873 **Project Number: BOSTON CONCRETE COR Report Date:** 12/26/18

GLOSSARY

Acronvms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for MS which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's NC

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less

than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

- Toxic Equivalent: The measure of a sample is toxicity derived by multiplying each dioxin and furan by its corresponding TEF TEO

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the 1 original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name:BOSTON CONC. QRTLY BENCHMARKLab Number:L1851873Project Number:BOSTON CONCRETE CORReport Date:12/26/18

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations
 of the analyte.
- E -Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q -The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: BOSTON CON-

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1851873

Project Number:

BOSTON CONCRETE CORP

Report Date:

12/26/18

REFERENCES

Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



ID No.:17873 Revision 12

Page 1 of 1

Published Date: 10/9/2018 4:58:19 PM

Alpha Analytical, Inc. Facility: Company-wide **Department: Quality Assurance** Title: Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

FSSOciates, Inc.

EST Associates, Inc. 51 Fremont Street
Needham, MA 02494
Phone (781) 455-0003
Fax (781) 455-8336
www.estassociates.com

Chain of Custody Record

Alpha Analytical Labs (508) 898-9220

U851873 Serial_No:12261814:12

Container Type Sample Type
P - Plastic 1, Wastewater 5, Surface Water
G - Glass 2, Groundwater 6, Storm Water
V - VOA 3, Soil 7, Other
B - Bacteria 4, Drinking Water

Lab Invoice To:EST	Report To:	The state of the s	EST Involce To: Boston Concrete	7222-C#-00	Q# SQ00316	Signed	The second secon
Lab Invoice	Lab Report To:		EST Invotes				

ration		01854
ite Corpo	y St.	∑
Boston Concrete Corporation	706 Broadway	Lowell
Client:	Address:	

01854-

Site: Boston Concrete Corporation

706 Broadway St.

Address:

Lowell

David Thebearge (978) 937-7222

Contact:

Contact: David Thebearge
Phone #: (978) 937-7222

Fax#:

Quarterly Benchmark Sampling

Description:

Day Tumaround	
Rush	

_			т-	 _	1			 _				 	· · · · · ·	-	т-	_		
Notes											The second secon		DATE TIME	123/	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	C1 (100)		
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Page 19 of 21

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W. Carrier
W

Associates, Inc.

EST Associates, Inc. 51 Fremont Street Needham, MA 02494 Phone (781) 455-0003 Fax (781) 455-8336 www.estassociates.com

Chain of Custody Record

Serial_No:12261814:12

Container Type Sample Type
P - Plastic 1. Wastewater 5. Surface Water
G - Glass 2. Groundwater 6. Storm Water
V - VOA 3. Soil 7. Other
B - Bacteria 4. Drinking Water

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Lab Involce To: NIA	Lab Report To:	EST Impaice 1				

Boston Concrete Corporation	706 Broadway St.
Client:	Address:

Boston Concrete Corporation

Site:

706 Broadway St.

Address:

AM

Lowell

David Thebearge (978) 937-7222

Contact:
Phone #:
Description:

01854-

MA

Lowell

Contact: David Thebearge Phone #: (978) 937-7222

Fax#:

Stormwater Quarterly Visuals

Turnaround
Day
Rush

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LOCATION (Sample Identification)				White the state of						The state of the s	Sampler's Name (Print) Sign	())	×	Additional Comments:				

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Manufacture and a service of the ser						
anoticequal qu wollot to siluter ons evo	Sources of Pollution / Folds of Pollution identified befine the security potential source in the period of the security potential to the security polytome in the period of the security of th					
nstulled t	Other Observations: The abrious source o					
	Oily Sheen: None detected					
	Foam: None detected					
	Suspended Solids: Fine particulate					
	Settled Solids: Fine sand /s://					
	Floating Solids: Mone detected					
	Clarity: Lloudy					
	Odor: noue detected					
	Color: Light brown					
ple quality in the space provided below.	Record your visual observations of the sam					
Hanny:(Nature of Discharge (Runoff or Snowmelt or Both					
Duration of Storm:	Amount of Rain (inches)					
Date of Last Rainfall:	Outfall: 001					
Personnel Involved: Mat Goall	Oate / Time: /2/16/18 /91.0					
	Facility Name: Easton Concrete					
Storm Water Quaterly Visual Examination Report Boston Concrete - Lowell, MA						